

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Original) A method of manufacturing pulp using *Rhodophyta*, comprising:
 - immersing *Rhodophyta* in an extraction solvent able to dissolve agar gel for a predetermined time period to dissolve the agar gel in the extraction solvent;
 - converting the dissolved agar gel into fiber by reacting the dissolved agar gel with a reaction solvent;
 - curing the fiber using a curing agent; and pulping the cured fiber.
2. (Original) The method according to claim 1, wherein the conversion into fiber is performed by continuously extruding the agar gel solution into the reaction solvent using an extrusion nozzle.
3. (Original) The method according to claim 1, wherein the conversion into fiber is performed by intermittently extruding the agar gel solution into the reaction solvent using a spray nozzle.
4. (Original) A method of manufacturing pulp using *Rhodophyta*, comprising:
 - immersing *Rhodophryta* in an extraction solvent able to dissolve agar gel for a predetermined time period to dissolve the agar gel in the extraction solvent; and
 - pulping after collecting a pulp material remaining after removal of the solution containing the dissolved agar gel.
5. (Original) A method of manufacturing pulp using *Rhodophyta*, comprising:
 - immersing *Rhodophyta* in an extraction solvent able to dissolve agar gel for a predetermined time period to dissolve a portion of agar gel in the extraction solvent;
 - collecting a pulp material remaining after removal of the solution containing the dissolved portion of agar gel;
 - curing the pulp material remaining after the removal using a curing agent; and
 - pulping the cured pulp material remaining after the removal.

6. (Original) The method according to claim 5, wherein the dissolution of the portion of agar gel in the extraction solvent is performed by immersing *Rhodophyta* in an alcohol-based solvent, followed by boiling.

7. (Currently Amended) The method according to ~~any one of claims 1 to 3, 5 and 6,~~ claim 1 wherein the curing agent comprises aldehyde.

8. (Currently Amended) The method according to ~~any one of claims 1 to 3, 5 and 6,~~ claim 1 herein the curing agent comprises Glyoxal.

9. (Currently Amended) The method according to ~~any one of claims 1 to 6,~~ claim 1 wherein the extraction solvent is used at a temperature of 80°C or higher.

10. (Currently Amended) The method according to ~~any one of claims 1 to 5,~~ claim 1 wherein the extraction solvent comprises any one selected from water, alcohols, and ketones.

11. (Currently Amended) The method according to ~~any one of claims 1 to 3,~~ claim 1 wherein the reaction solvent is used at a temperature of 80°C or higher.

12. (Original) The method according to claim 11, wherein the reaction solvent comprises alcohols or ketones, provided that the reaction solvent is a different material *from* the extraction solvent.

13. (Currently Amended) The method according to ~~any one of claims 1 to 6,~~ claim 1 wherein the dissolution is performed by chipping *Rhodophyta*, followed by immersion in the extraction solvent.

14. (Currently Amended) The method according to ~~any one of claims 1 to 6,~~ claim 1 wherein *Rhodophyta* is selected *from Gelidium amansii, Gracilaria vetrucosa, Cottonii, Spinoswn,* and combinations thereof

15. (Currently Amended) A pulp manufactured using *Rhodophyta* according to ~~any one of claims 1 to 6~~ claim 1.

16. (Currently Amended) A method of manufacturing paper, comprising: preparing pulp manufactured using *Rhodophyta* according to ~~any one of claims 1 to 6;~~ claim 1 and manufacturing paper using the pulp.

17. (Original) Paper manufactured according to claim 16.

18. (Currently Amended) A method of manufacturing paper, comprising:
preparing pulp manufactured using *Rhodophyta* according to ~~any one of claims~~
~~1 to 3~~; claim 1
~~preparing pulp manufactured using *Rhodophyta* according to any one of claims~~
~~4 to 6~~;
preparing wood pulp;
mixing two or more of the above pulps; and
manufacturing paper using the pulp mixture.
19. (Original) Paper manufactured according to claim 18.
20. (new) A method of manufacturing paper, comprising:
preparing pulp manufactured using *Rhodophyta* according to claim 4;
preparing wood pulp;
mixing two or more of the above pulps; and
manufacturing paper using the pulp mixture.